

FIG.1 FIG.2 FIG.5

10 CHANNEL SIMULATOR
 11 RADIO CIRCUIT
 12 ANALOG BB PROCESSING
 5 14 SHIFT REGISTER
 15 SELECTOR (CORRESPONDING TO THE NUMBER OF PATHS)
 19 ANALOG BB PROCESSING
 20 RADIO CIRCUIT
 30 CONTROL APPARATUS
 10 40 DEVELOPMENT APPARATUS (TRANSMISSION SYSTEM)
 41 DIGITAL BB PROCESSING
 42 ANALOG BB PROCESSING
 43 RADIO CIRCUIT
 50 DEVELOPMENT APPARATUS (RECEPTION SYSTEM)
 15 51 DIGITAL BB PROCESSING
 52 ANALOG BB PROCESSING
 53 RADIO CIRCUIT
 60 DATA GENERATOR
 70 ERROR RATE MEASUREMENT INSTRUMENT
 20

FIG.2

100 CHANNEL SIMULATOR
 110 CONTROL APPARATUS

25 FIG.3

INSTANTANEOUS VARIATION

123 PHASE VARIATION

FIG.4 (A)

NOISE

FIG.5

- 5 200 CHANNEL SIMULATOR
- 201 TRANSMISSION ANALOG ADJUSTMENT
- 202 RECEPTION ANALOG ADJUSTMENT

FIG.6

- 10 201 TRANSMISSION ANALOG ADJUSTING SECTION
- 211 DC OFFSET ADDITION
- 212 FREQUENCY OFFSET • PHASE OFFSET ADDITION
(COMPLEX MULTIPLICATION)
- 213 DELAY ADJUSTMENT
- 15 214 PSEUDO PA
- 215 PHASE INCREMENT CALCULATION
- GAIN
- OFFSET
- INITIAL PHASE (INITIAL OFFSET)
- 20 FREQUENCY OFFSET
- AMOUNT OF DETERIORATION IN ORTHOGONALITY (DEGREE)
- ADJUSTMENT DELAY
- LEVEL CALCULATION
- TIME CONSTANT
- 25 LEVEL PRIOR TO AMPLIFICATION
- BACKOFF

FIG.7

230 ENVELOP AMPLITUDE CALCULATION
 231 AVERAGING
 232 DISTORTION COMPUTATION
 5 233 SATURATION LEVEL COMPUTATION

FIG.8

202 RECEPTION ANALOG ADJUSTING SECTION
 251 FREQUENCY OFFSET • PHASE OFFSET ADDITION
 10 (COMPLEX MULTIPLICATION)
 252 PHASE INCREMENT CALCULATION
 262 DC OFFSET
 263 DELAY ADJUSTMENT
 INITIAL PHASE (INITIAL OFFSET)
 15 FREQUENCY OFFSET
 AMOUNT OF DETERIORATION IN ORTHOGONALITY (DEGREE)
 GAIN
 OFFSET
 ADJUSTMENT DELAY
 20

FIG.9 FIG.10

108 304 AGC
 INPUT SIGNAL
 FADING VARIATION
 25 NOISE LEVEL
 NOISE
 TARGET LEVEL

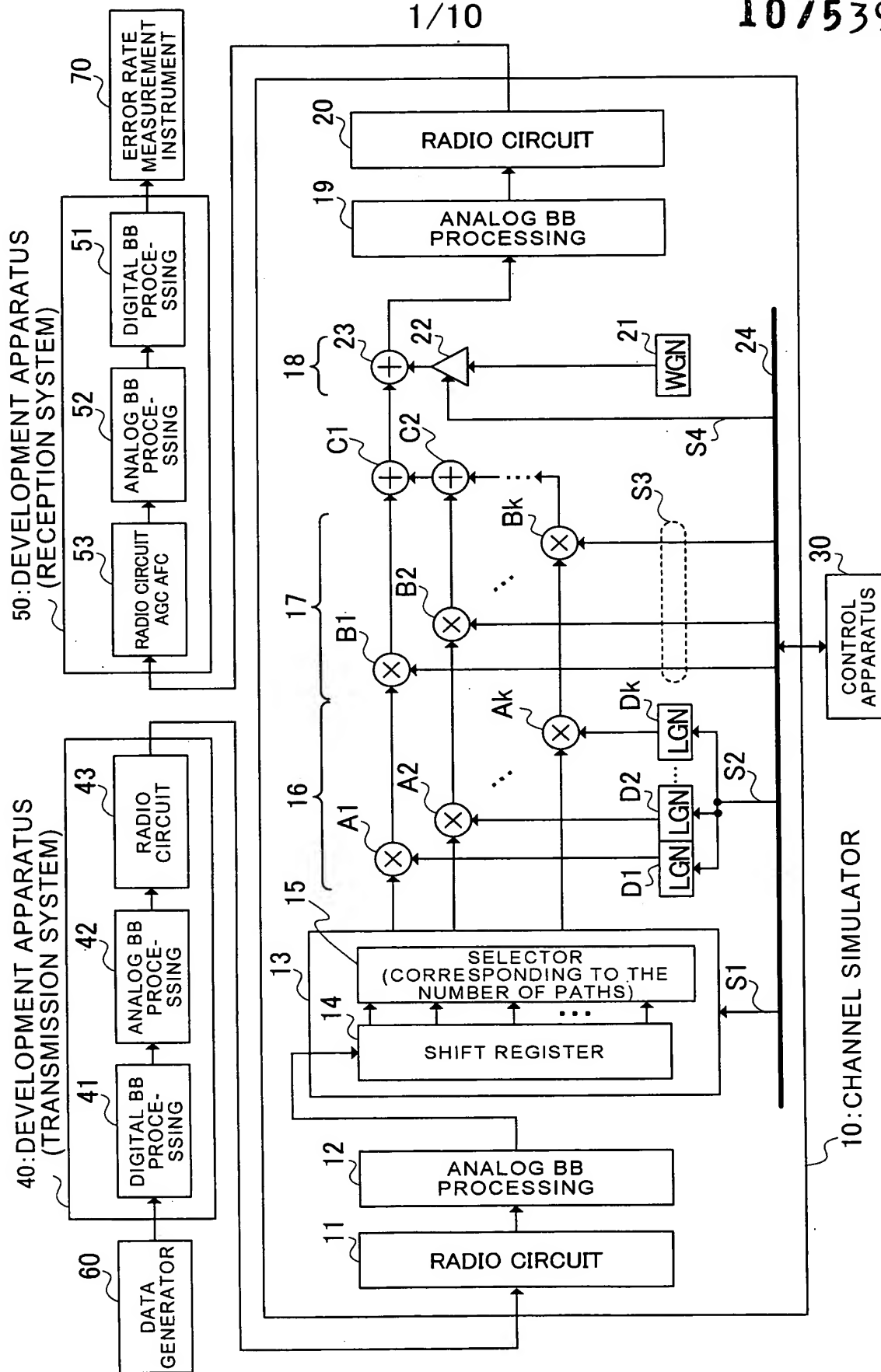
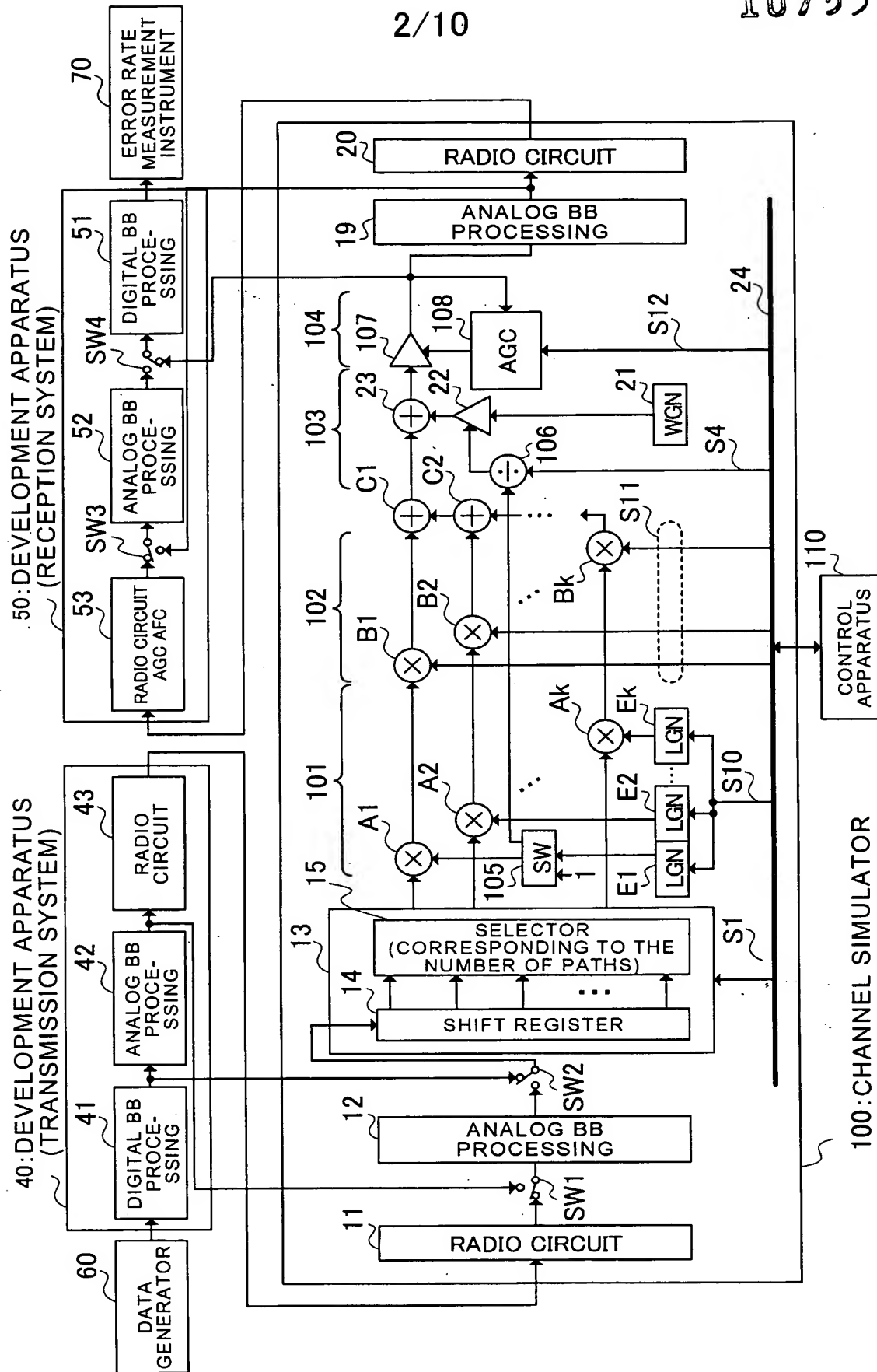


FIG.1 (PRIOR ART)



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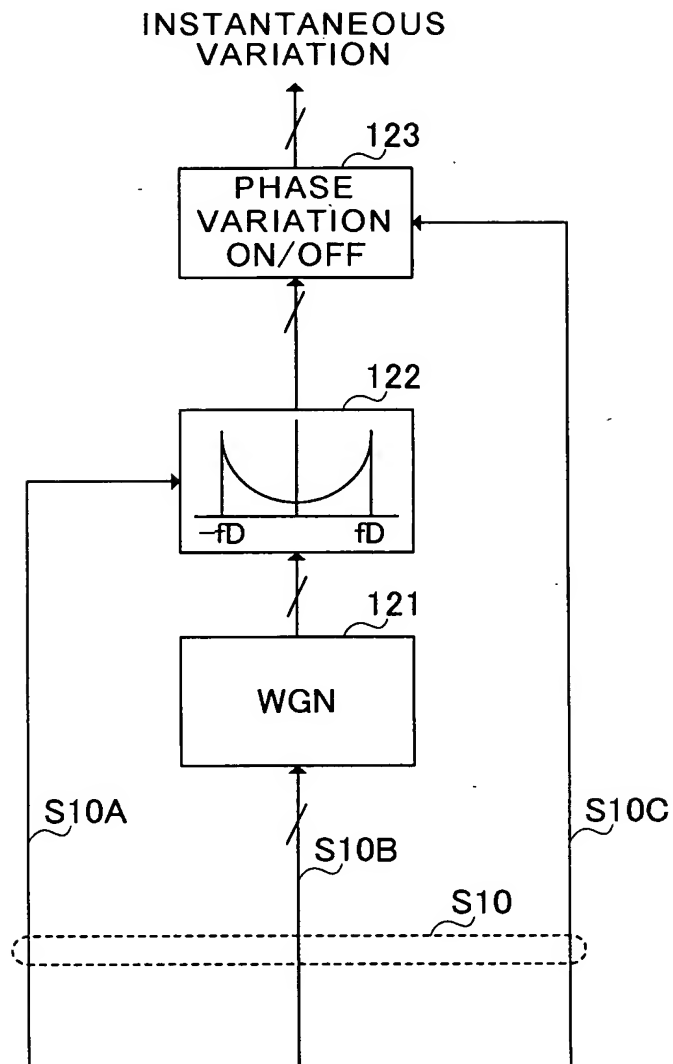
E1 (E2~Ek)

FIG.3

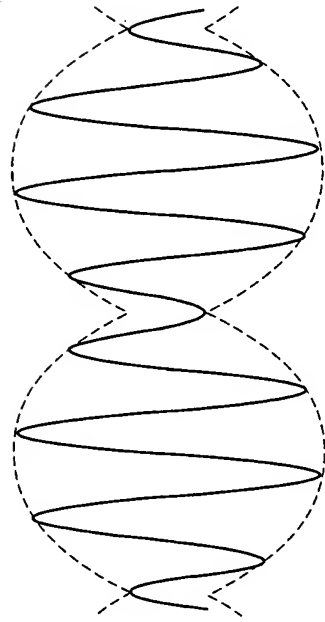


FIG. 4
(A)

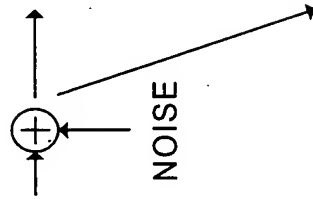


FIG. 4
(B)

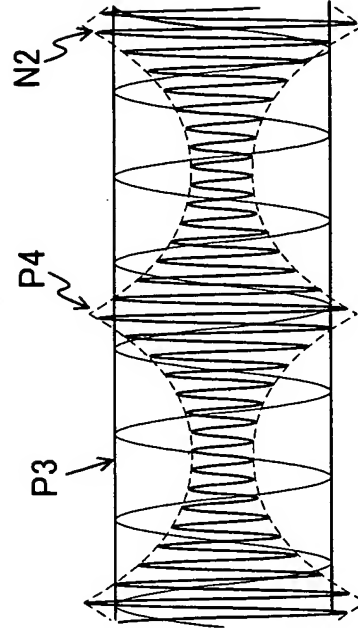
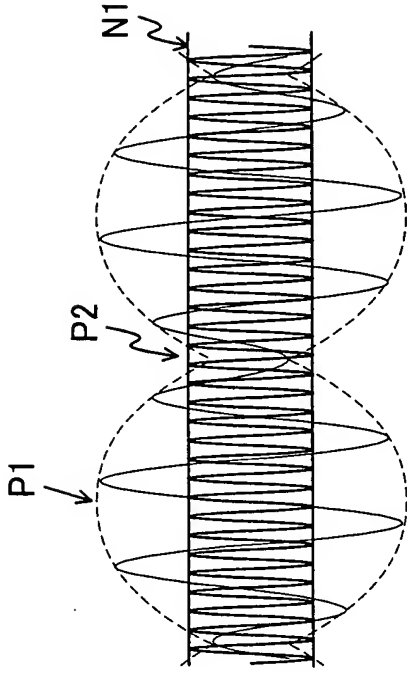


FIG. 4
(C)

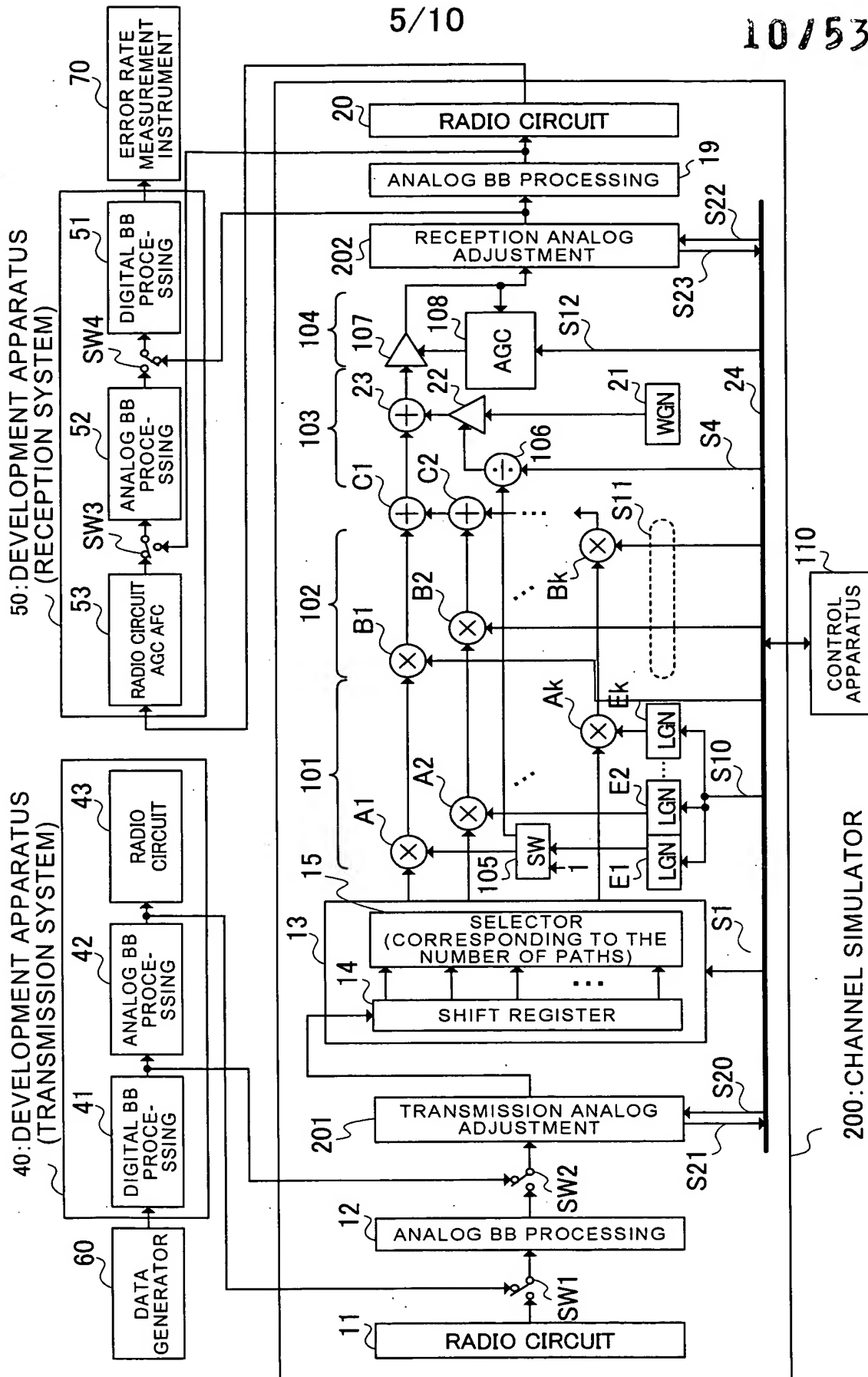


FIG.5

201: TRANSMISSION ANALOG ADJUSTING SECTION

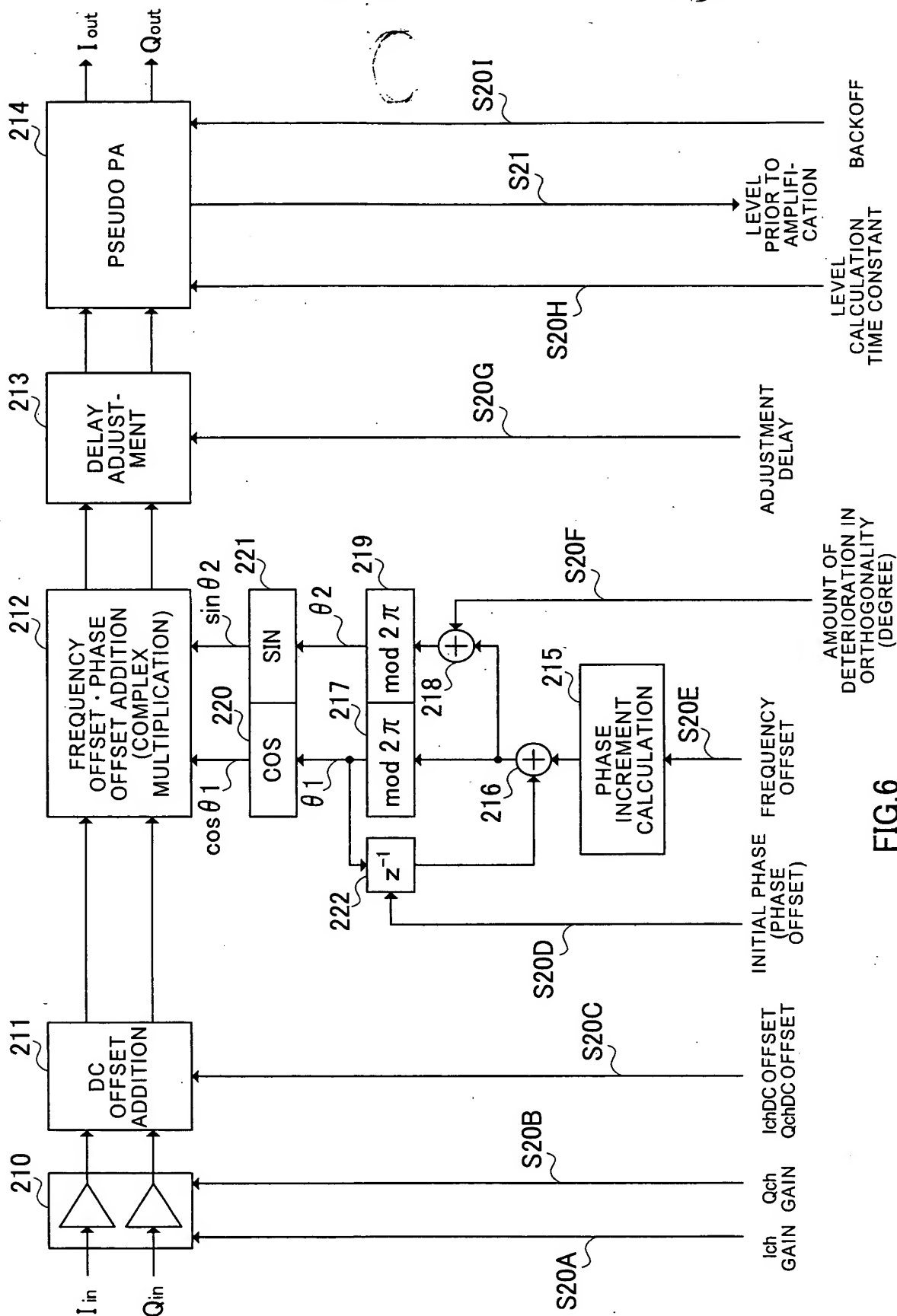


FIG.6

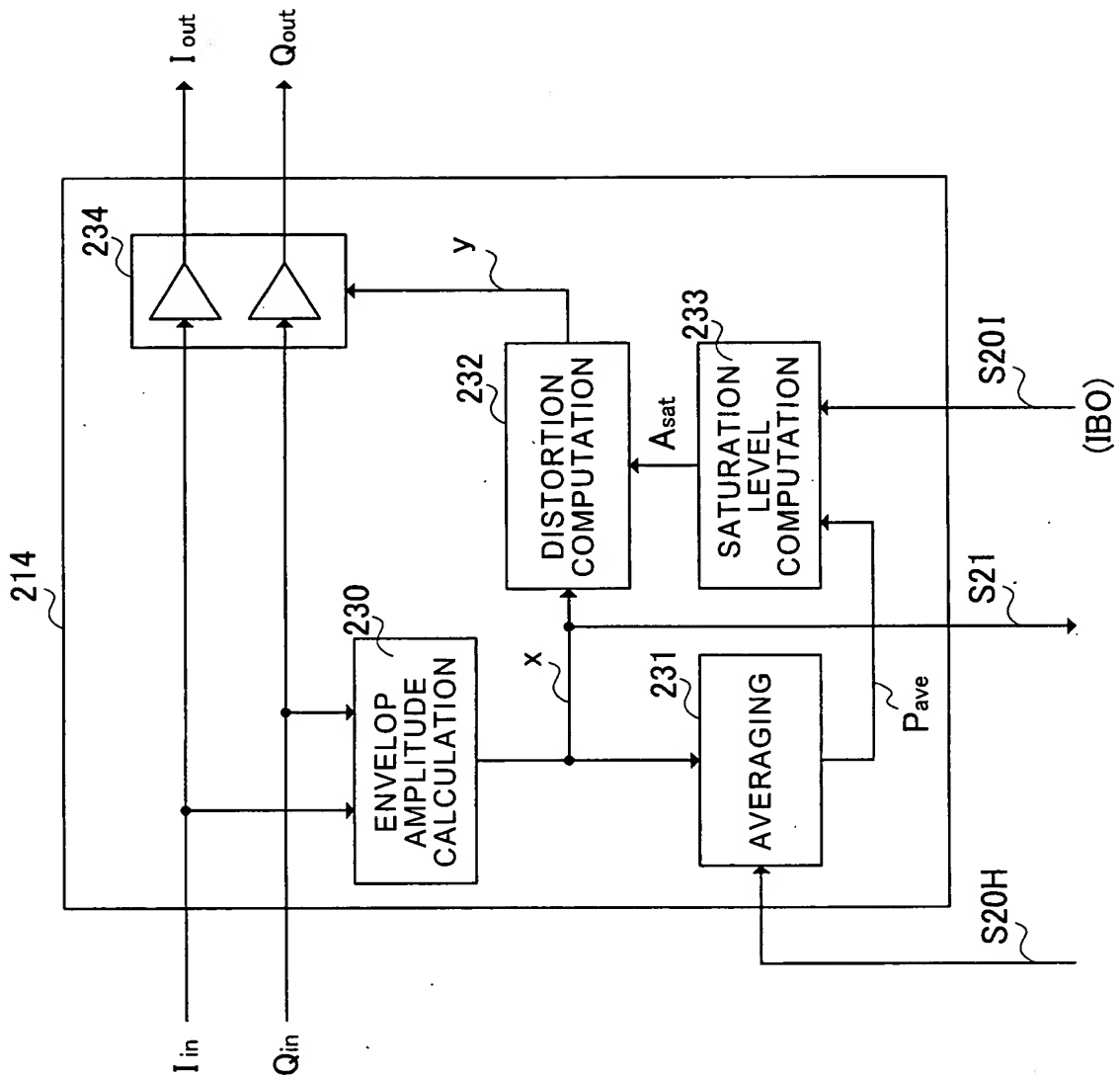


FIG. 7

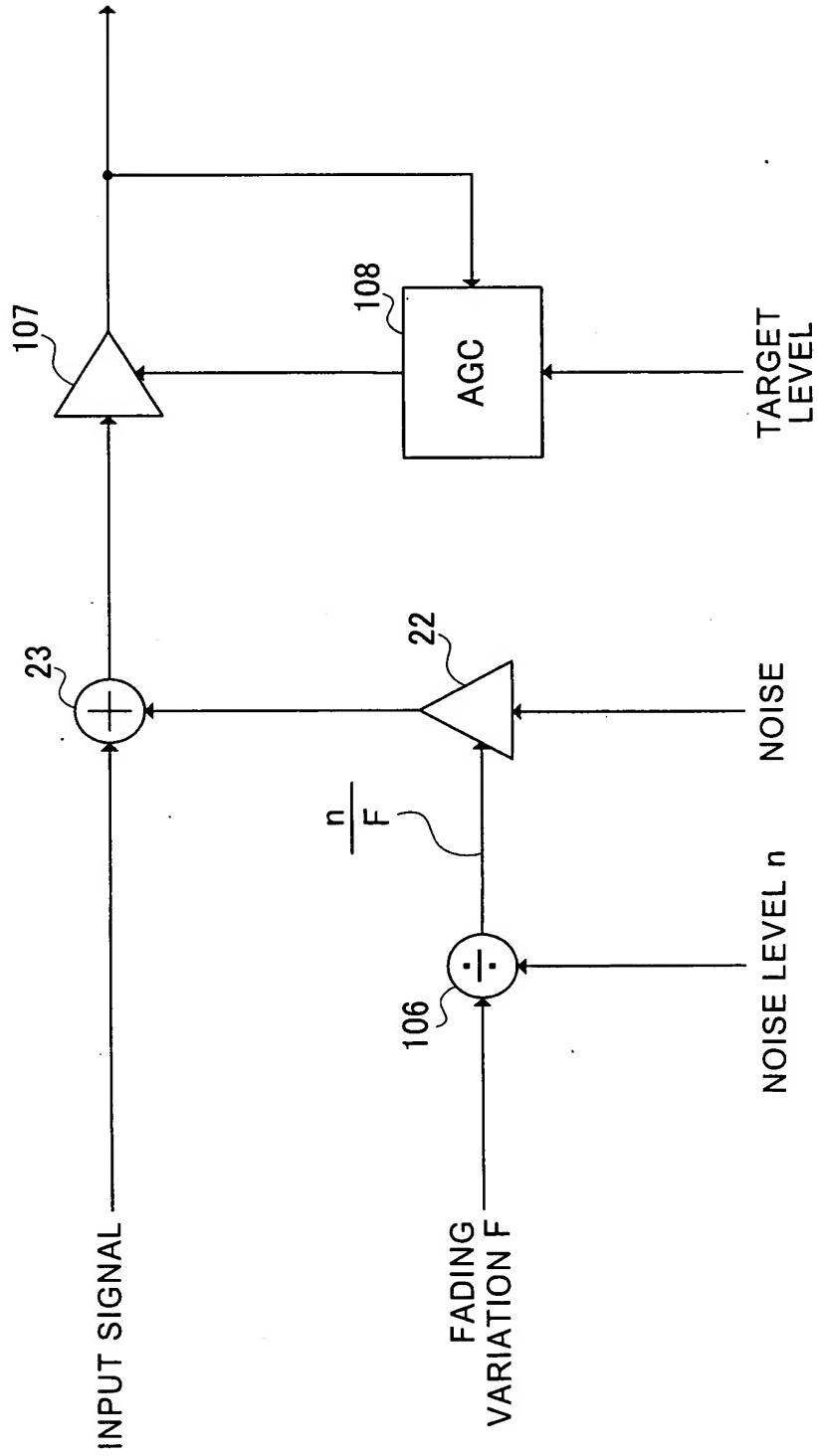


FIG.9

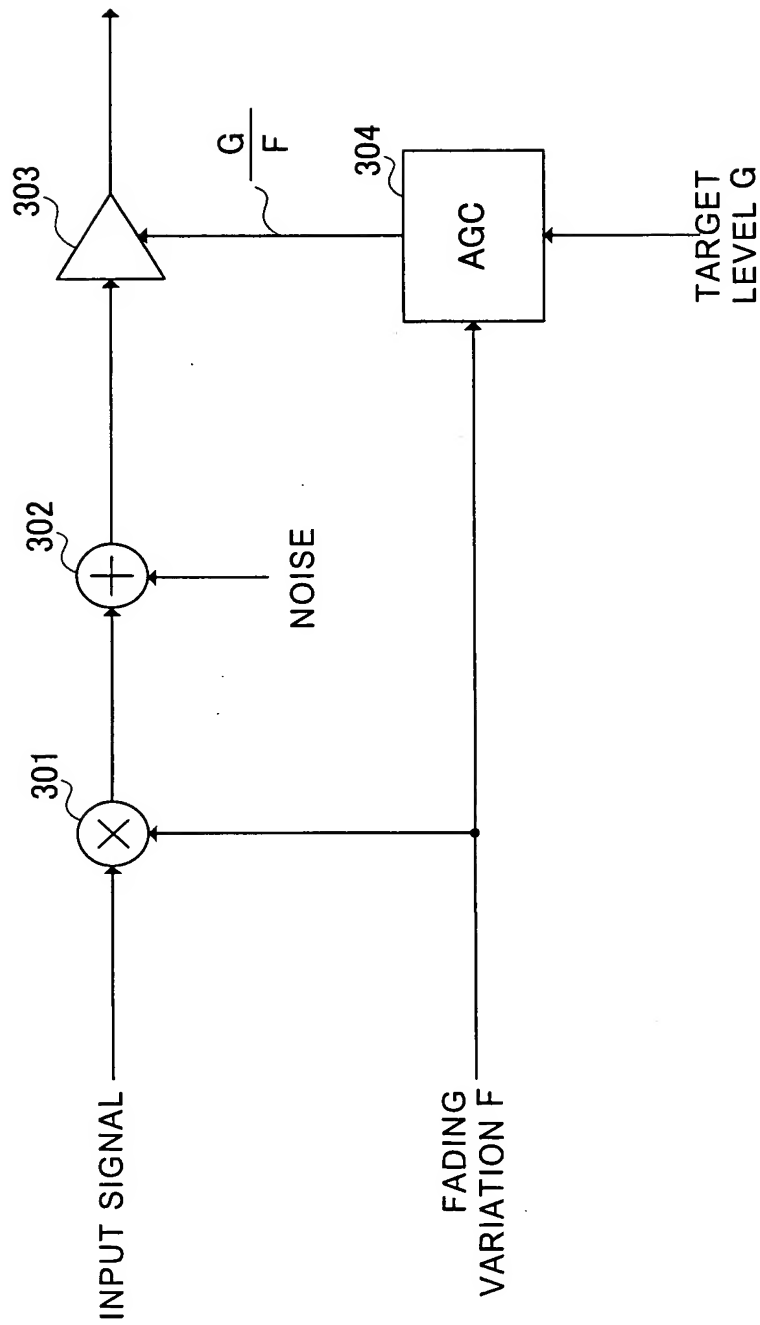


FIG.10